uFR Online NFC Reader - Android
1.4 version

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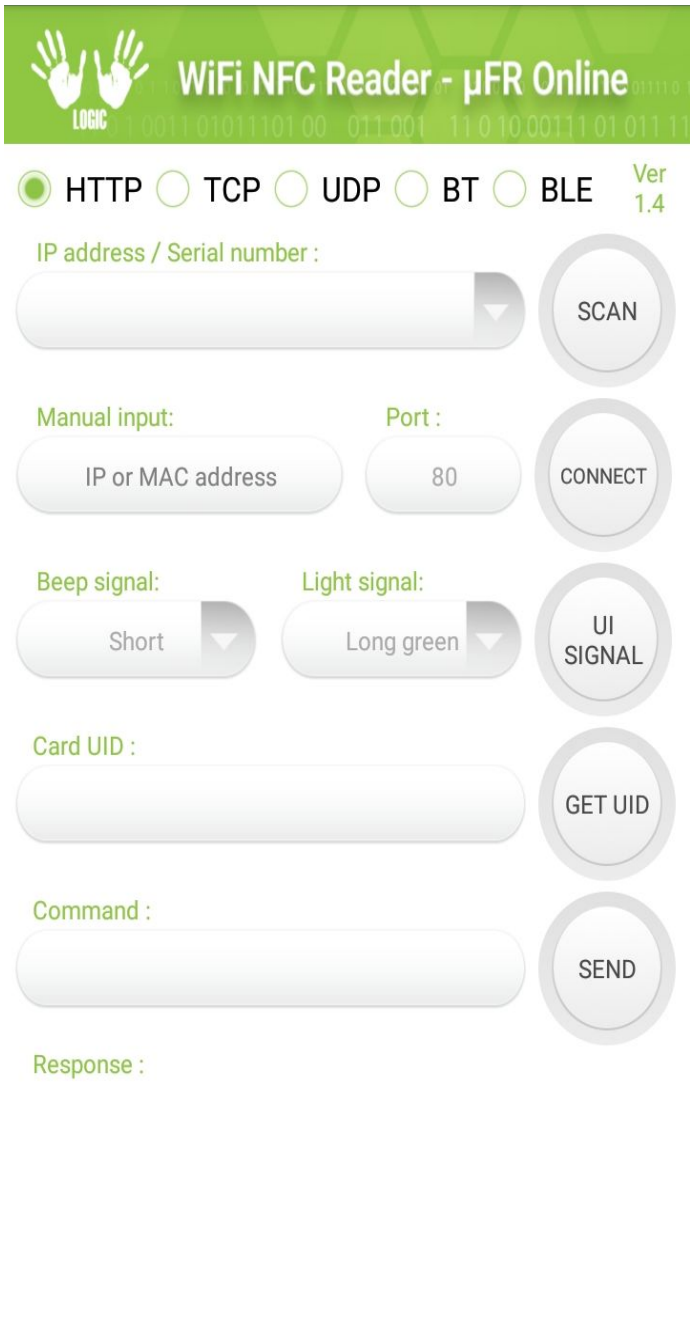
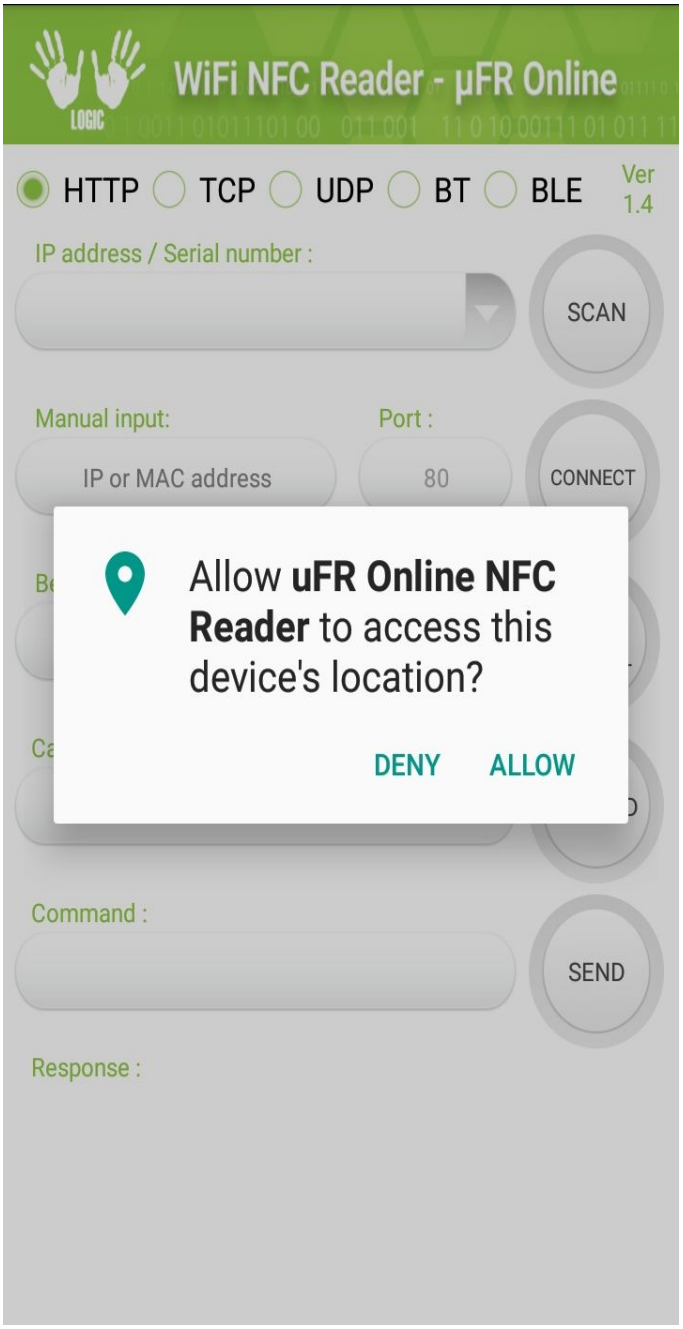
Application preview

At the beginning, application will ask you to allow access to device's location. Please allow it to be able to scan uFR Online device's in Bluetooth mode successfully.





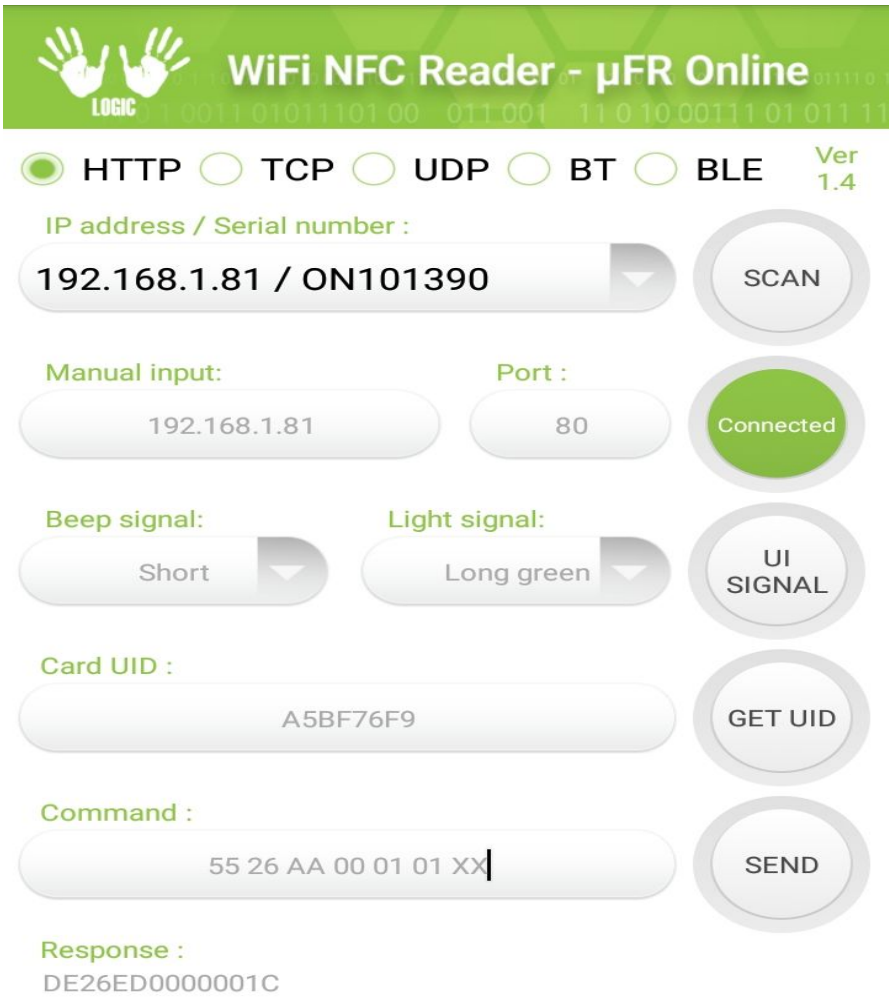
Options

Click on 'SCAN' button to see available uFR Online readers. Notice that you have to be connected at the same network as readers. If you can't find reader ip address by clicking 'SCAN' button, you have an option to manually input ip address. If ip address is manually entered, application will take that ip for work, if field for manual ip address input is empty, application will use ip address from dropdown list. When you select reader's ip address from drop down list and click button 'GET UID' you will be able to see card's uid in text field.
On button 'UI SIGNAL' you will be able to hear sound from buzzer and alternation light signal.

The same thing will happen if you choose UDP or TCP/IP communication protocol.
If HTTP protocol is selected, then port is always 80 by default.

If UDP or TCP/IP protocol is selected, you can modify the port by yourself. Note that if you work with HTTP, TCP/IP or UDP connection, button “CONNECT” will turn to “Connected” and it will become green.

You can also type hexadecimal command from uFR COM protocol to send it to reader. Simply type the command and click ‘SEND’ button. The picture below shows USER_INTERFACE_SIGNAL command sent to reader:

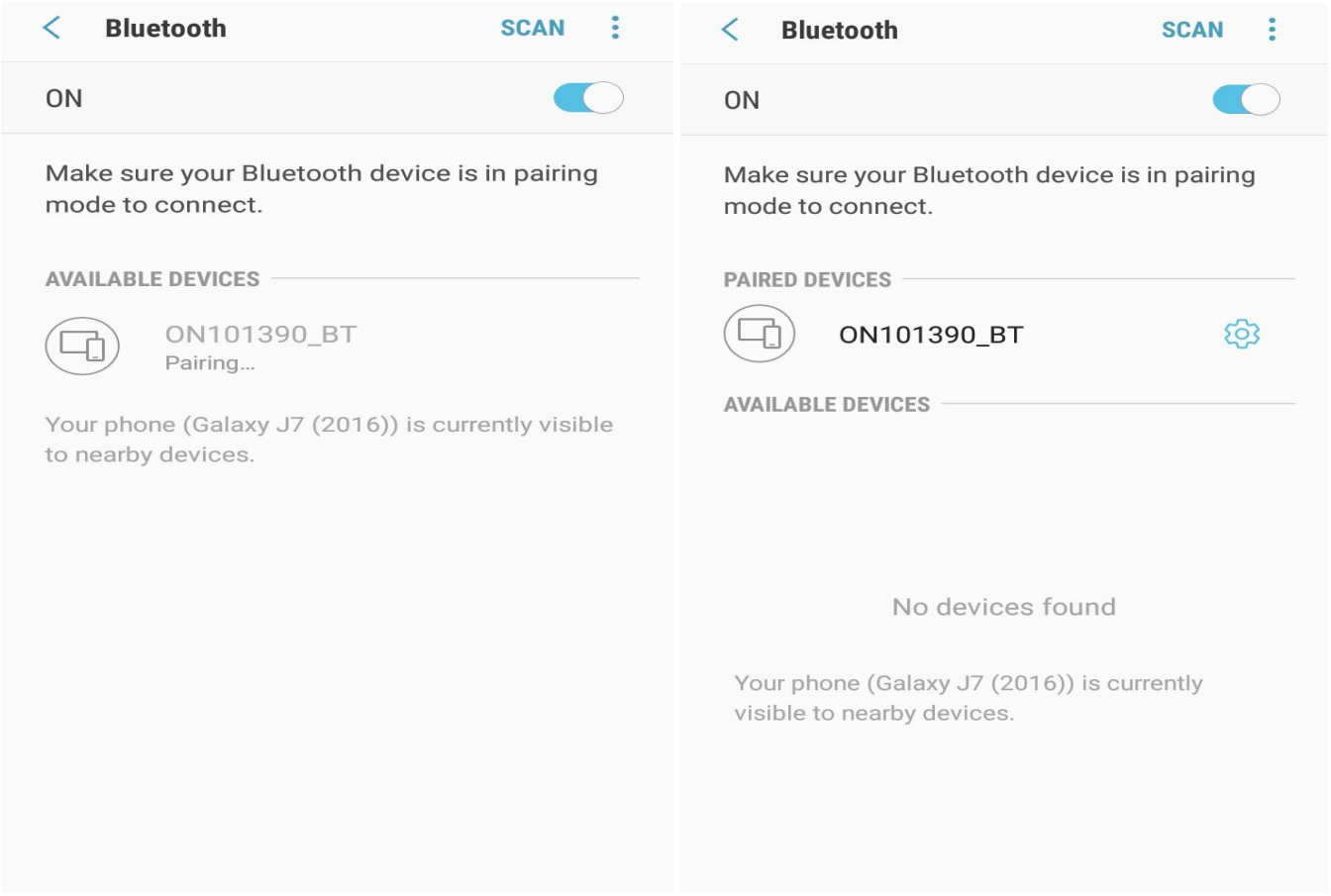


You can also send command with delimiters and if you want automatic checksum calculation you can type ‘XX’ as the last byte in your command.

Bluetooth

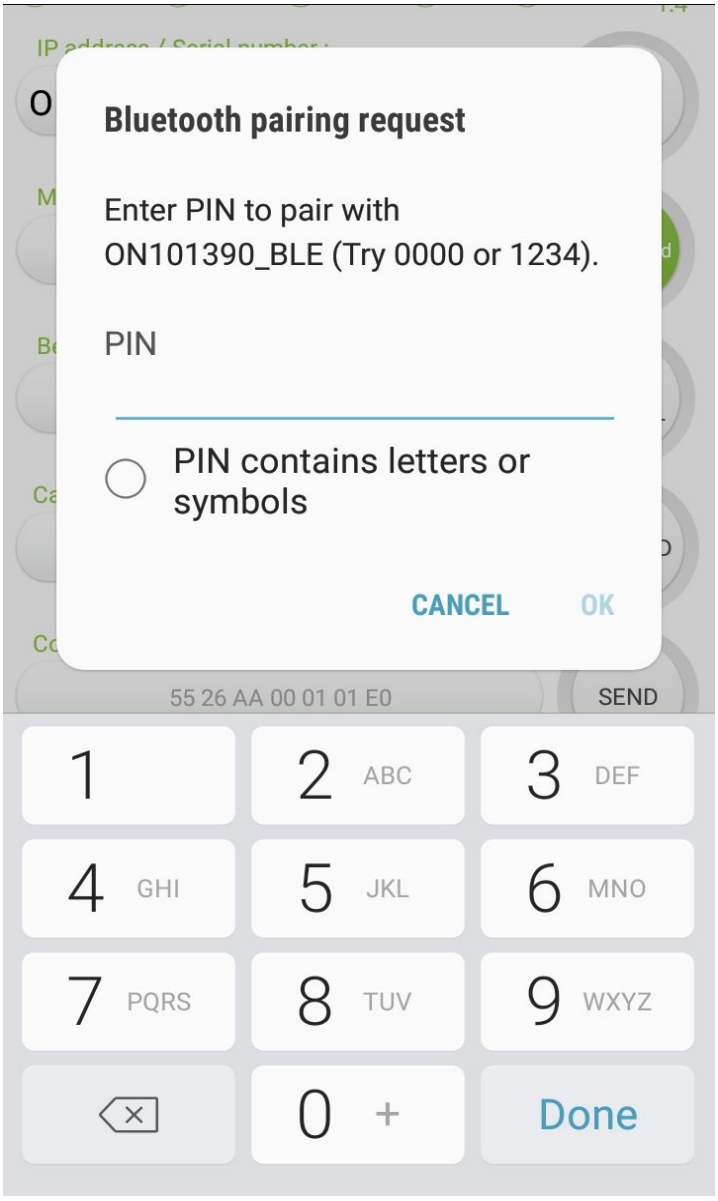
Before you start to use application with uFR Online readers in Bluetooth mode, you need to pair them with your phone. uFR Online devices in Bluetooth Serial mode have preffix "_BT" and devices in Bluetooth Low Energy mode have preffix "_BLE" in their name after serial number.

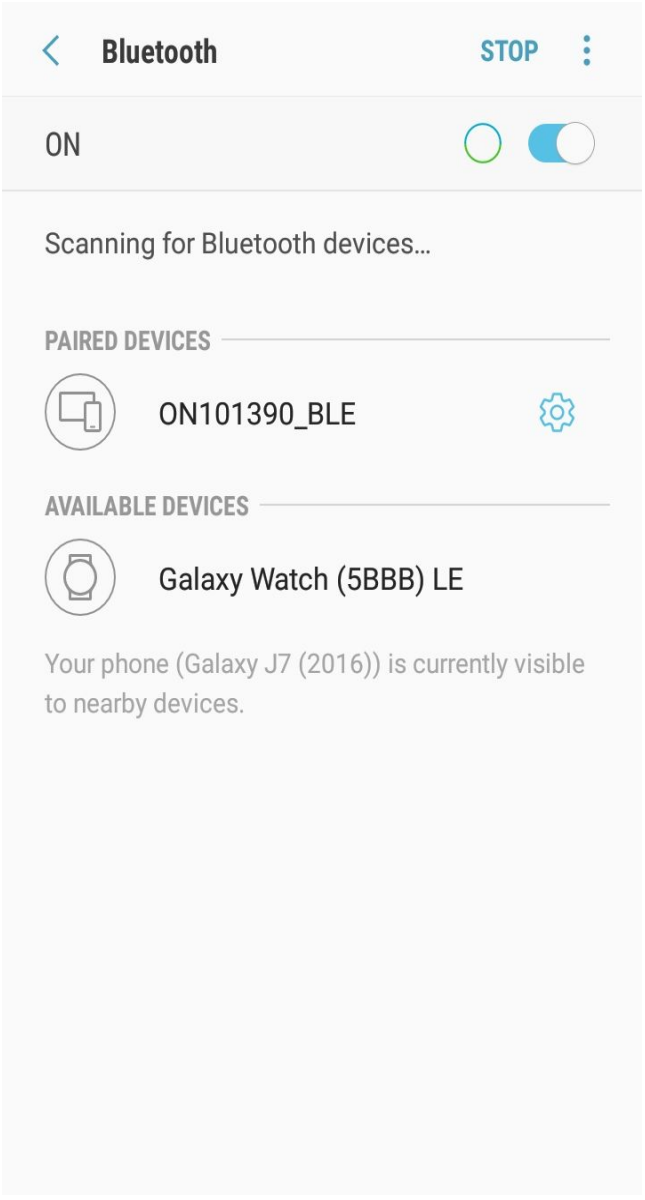
Bluetooth serial pairing



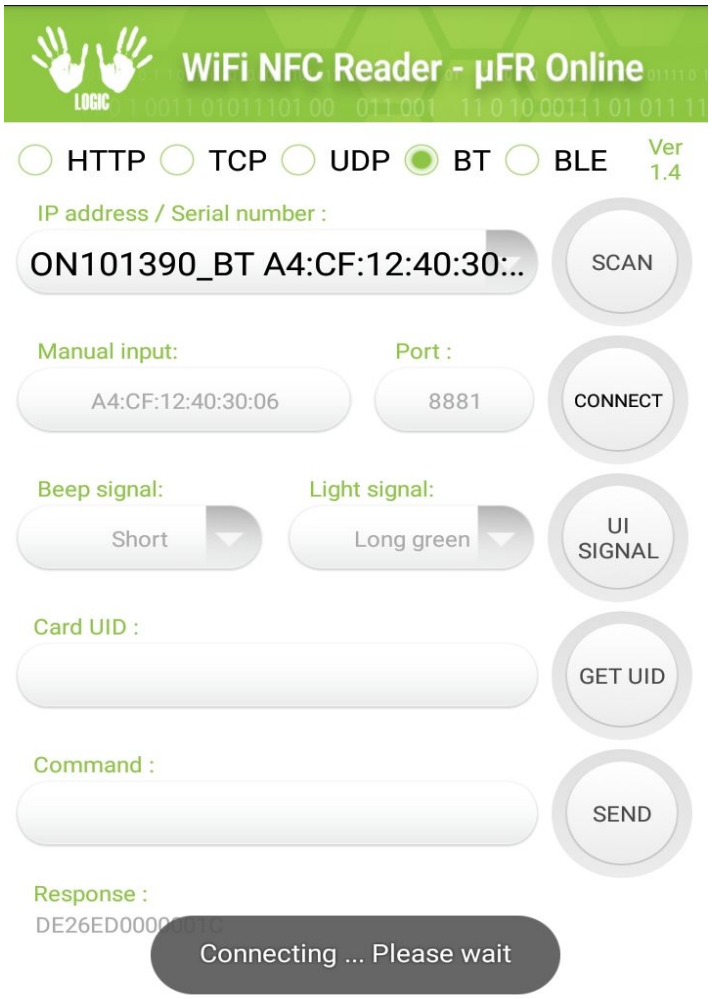
Bluetooth Low Energy pairing

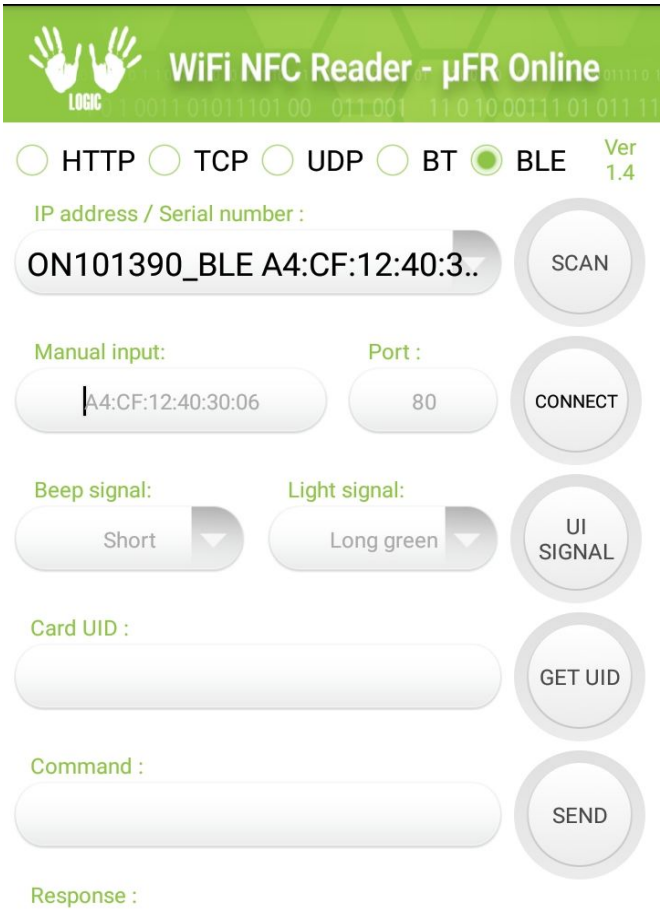
In Bluetooth Low Energy pairing, when you select device you want to pair with it, you need to type device's PIN for pairing.



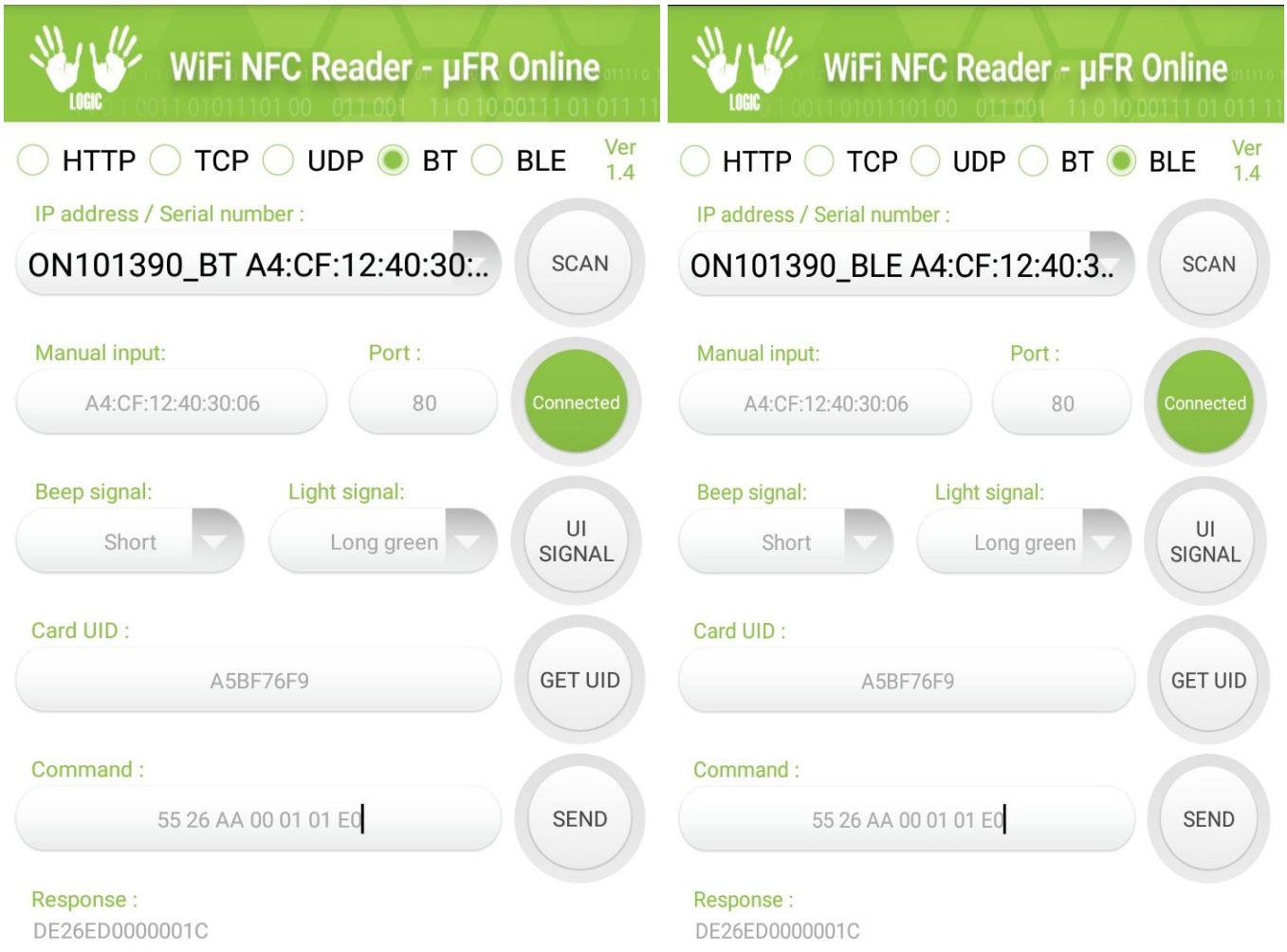


If you click on BT or BLE radio button application will ask for permission to turn Bluetooth ON, if it isn't already turned ON. After turning Bluetooth ON, you will be able to click "SCAN" button to see paired uFR Online readers with your phone. Choose device you want to work with and click "CONNECT" button.





When you click “CONNECT” button, wait until device is connected, and then you will be able to work with uFR Online reader. If device is successfully connected “CONNECT” button will become green.



Revision history

Date	Version	Comment
2019-06-17	1.4	Base document